

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new non-provisional
applications under 37 CFR 1.53(b))

Title of Invention

**Adaptive Noise Filtering and Equalization for
Optimal High Speed Multilevel Signal Decoding**

Named Inventor(s)

**Andrew Joo Kim; Vincent Mark Hietala; and
Sanjay Bajekal**

Attorney Docket

07982.105018

Express Mail Label No.

ER 166436765 US

APPLICATION ELEMENTS

1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. ☒ Applicant claims small entity status. See 37 CFR 1.27.
3. ☒ Specification, Claims,
and Abstract Total Pages 23
4. ☒ Drawings Total Sheets 11
5. ☒ Oath or Declaration Total Pages 3
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17
completed)
 - (i) ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting
inventor(s) named in the prior
application, see 37 CFR 1.63(d)(2)
and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76.
7. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence
Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statement verifying identity of above
copies

Commissioner for Patents
ADDRESS TO: Mail Stop Patent Application
P.O. Box 1450
Alexandria, VA 22313-1450

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement
(when there is an assignee)
 - ☐ Power of Attorney by assignee
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)
PTO-1449
 - ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
16. ☒ Assignee: Quellan, Inc.
250 14th Street, N.W.
Atlanta, Georgia 30318
19. ☐ Other: _____

17. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:
- ☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: _____
- Prior application information: Examiner: _____ Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 5b, is considered as being part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS:

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Customer No. 20786



FEE TRANSMITTAL

Attorney Docket No. 07982.105018
Express Mail Label No. ER 166436765 US

This sheet accompanies a patent application transmittal for the following application:

Inventor(s): **Andrew Joo Kim; Vincent Mark Hietala and Sanjay Bajekal**
Filing Date: **July 15, 2003**
Title: **Adaptive Noise Filtering and Equalization for Optimal High Speed Multilevel Signal Decoding**

The filing fee is calculated as shown below:

1. FILING FEE:

FOR:	SMALL ENTITY		LARGE ENTITY	
	FEE	FEE PAID	FEE	FEE PAID
<input checked="" type="checkbox"/> UTILITY FILING FEE	\$375	375.00	\$750	
<input type="checkbox"/> DESIGN FILING FEE	\$165		\$330	
<input type="checkbox"/> PLANT FILING FEE	\$260		\$520	
<input type="checkbox"/> REISSUE FILING FEE	\$375		\$750	
<input type="checkbox"/> PROVISIONAL FILING FEE	\$80		\$160	
SUBTOTAL (1)		\$375.00		\$xxx

2. CLAIMS:

FOR:	NO. FILED	NO. EXTRA	SMALL ENTITY		LARGE ENTITY	
			RATE	FEE	RATE	FEE
TOTAL CLAIMS	32 - 20 =	12	12 x 9 =	108.00	x 18 =	
INDEP. CLAIMS	4 - 3 =	1	1 x 42 =	42.00	x 84 =	
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENTED			+140 =		+280 =	
SUBTOTAL (2)				\$150.00		\$xxx

3. ADDITIONAL FEES:

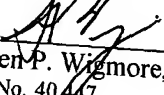
FOR:	SMALL ENTITY		LARGE ENTITY	
	FEE	FEE PAID	FEE	FEE PAID
<input type="checkbox"/> LATE FILING, FEE OR OATH	\$65		\$130	
<input type="checkbox"/> NON-ENGLISH SPECIFICATION	\$130		\$130	
<input type="checkbox"/> OTHER				
SUBTOTAL (3)		\$xxx		\$xxx

TOTAL FILING FEES: \$525.00

A check is enclosed for the total amount: **\$525.00**

☒ Charge any additional fees required under 37 C.F.R. 1.16 or 1.17 to Deposit Account 11-0980.

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Date: July 15, 2003

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